

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

VINING et al.

Application No. 09/856,683

Filed: May 23, 2001

For: Virtual Endoscopy with
Improved Image Segmentation
and Lesion Detection:
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: Examiner:
:
: Group Art Unit:
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:Certificate of Mailing Under 37 CFR §1.8(a)

I hereby certify that this correspondence is being deposited on August 21, 2001 with the United States Postal Service as first class mail in an envelope addressed to COMMISSIONER OF PATENTS AND TRADEMARKS, Washington, D.C. 20231.

August 21, 2001
Date of Certificate
PAIGE R. ZEITZINFORMATION DISCLOSURE STATEMENT

As a means of complying with the duty of disclosure set forth in 37 C.F.R. §1.56, it is respectfully requested that the references listed on the attached PTO Form 1449 be considered by the patent Examiner and be made of record in the above-identified application. We are providing full text copies of the documents listed on the attached PTO Form 1449.

This submission is believed to be in compliance with the requirements of 37 C.F.R. §1.97 and §1.98. No action has been received in the present application. Thus, it is believed by the undersigned attorney that no fee is required under 37 C.F.R. §1.97(b).

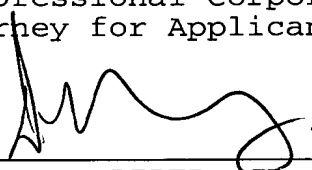
In the event that a fee is required and is not enclosed, or the check is improper, or the fee calculation is in error, the Commissioner is authorized to charge any underpayment or credit any overpayment to Deposit Account

No. 04-1406 of the undersigned attorneys. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

DANN, DORFMAN, HERRELL AND SKILLMAN
A Professional Corporation
Attorney for Applicant(s)

By



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Facsimile: 215/563-4044

Enclosures: PTO Form 1449
Cited References

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT(S) (Use several sheets if necessary)	ATTY. DOCKET NO.	APPL. NO. 09/856,683
	APPLICANT Vining et al.	
	FILING DATE May 23, 2001	GROUP

U.S. PATENT DOCUMENTS

Examiner Initial	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	4 3 6 7 2 1 6	1/1983	Mutzel et al.			
	4 6 3 0 2 0 3	12/1986	Szirtes			
	4 7 1 0 8 7 6	12/1987	Cline et al.			
	4 7 1 9 5 8 5	1/1988	Cline et al.			
	4 7 2 9 0 9 8	3/1988	Cline et al.			
	4 7 3 7 9 2 1	4/1988	Goldwasser et al.			
	4 7 5 1 6 4 3	6/1988	Lorensen et al.			
	4 7 9 1 5 6 7	12/1988	Cline et al.			
	4 8 2 1 2 1 3	4/1989	Cline et al.			
	4 8 2 3 1 2 9	4/1989	Nelson			
	4 8 3 1 5 2 8	5/1989	Crawford et al.			
	4 8 7 9 6 6 8	11/1989	Cline et al.			

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
9 1 1 4 3 9 7	10/1991	WIPO			
9 4 2 4 6 4 0	10/1994	WIPO			
0 2 3 1 9 5 0	8/1987	European Patent Office			
0 5 1 4 5 8 7	11/1992	European Patent Office			
2 2 6 5 7 7 5	10/1993	United Kingdom			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	T.L. Schulley, et al. "A High Resolution Nonlinearity Correcting A/D Converter Architecture," 3-6 Jun. 1993, pp. 1212-1215, 1993 IEEE International Symposium on Circuits and Systems.
	Vining, D.J., Padhani, A.R., Wood, S., Zerhouni, E.A., Fishman, E.K., and Kuhlman, J.E., "Virtual Bronchoscopy: A New Perspective for Viewing the Tracheobronchial Tree." Radiology. Nov. 1993, vol. 189 (P).
	Watt, Alan. "3D Computer Graphics." 2nd Edition, Addison-Wesley Pub. Co., 1993, pp. 320-323.
	Strong et al., "Applications of Three-Dimensional Display Techniques in Medical Imaging," J. Biomed. Eng. 1990, vol. 12. May, pp. 233-238.

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DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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U.S. PATENT DOCUMENTS

Examiner Initial	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	6 0 8 3 1 6 2	7/4/00	Vining			
	4 9 5 8 9 3 2	9/1990	Kegelman et al.			
	4 9 8 4 1 5 7	1/1991	Cline et al.			
	4 9 8 5 8 3 4	1/1991	Cline et al.			
	5 0 4 7 7 7 2	9/1991	Ribner			
	5 0 5 6 0 2 0	10/1991	Feldman et al.			
	5 1 2 7 0 3 7	6/1992	Bynum			
	5 1 6 6 8 7 6	11/1992	Cline et al.			
	5 1 7 0 3 4 7	12/1992	Tuy et al.			
	5 1 8 7 6 5 8	2/1993	Cline et al.			
	5 2 0 4 6 2 5	4/1993	Cline et al.			

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9 5 2 0 2 7 0	7/1987	WIPO			
9 6 1 3 2 0 7	5/1996	WO			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

		<input checked="" type="checkbox"/>	Oikarinen et al., "Rendering System for Tomographic Images" 0-7803-1377-1/93 IEEE.
		<input checked="" type="checkbox"/>	General Electric Medical Systems, "3D Navigator for CT or MR Advanced Visualization Software", 1996.
		<input checked="" type="checkbox"/>	General Electric Medical Systems, "K1031L/LA/N/NA Advantage TM Workstation 3.1" Product Data 1-98 Page 1-7.
		<input checked="" type="checkbox"/>	Picker International Voyager TM Product Data, "Voyager TM Visualization Tools for the Q-series Scanner", 1997.

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	5 2 2 9 9 3 5	7/1993	Yamagishi et al.			
	5 2 4 5 5 3 8	9-14-93	Lis			
	5 2 6 1 4 0 4	11-16-93	Mick et al.			
	5 2 6 5 0 1 2	11-23-93	Amans et al.			
	5 2 7 0 9 2 6	12-14-93	Tam			
	5 2 8 3 8 3 7	2-1-94	Wood			
	5 2 9 5 4 8 8	3-22-94	Lloyd et al.			
	5 2 9 9 2 8 8	3-29-94	Glassman et al.			
	5 3 4 5 4 9 0	9-6-94	Finnigan et al.			
	5 3 6 5 9 2 7	11-22-94	Roemer et al.			
	5 4 5 8 1 1 1	10-17-95	Coin			
	4 2 4 3 6 5 2	1/1981	Francis			

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	4	3	9	1	2	8	0		7/1983	Miller			
	4	8	7	4	3	6	2		10/1989	Wiest et al.			
	4	9	8	5	8	5	6		1/1991	Kaufman et al.			
	4	9	9	3	4	1	5		2/1991	Long			
	5	0	0	6	1	0	9		4/1991	Douglas et al.			
	5	0	2	3	0	7	2		6/1991	Cheng			
	5	0	3	8	3	0	2		8/1991	Kaufman			
	5	3	2	2	0	7	0		6/1994	Goodman et al.			
	5	6	1	1	0	2	5		3/1997	Lorensen et al.			
	5	6	2	3	5	8	6		4/1997	Hohne			
	5	6	3	0	0	3	4		5/1997	Oikawa et al.			
	5	9	7	1	7	6	7		10/1999	Kaufman et al.			

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		5	9	2	0	3	1	9	7/1999	Vining			
		5	8	9	1	0	3	0	4/1999	Johnson et al.			
		5	4	1	2	7	6	3	5/1995	Knoplioch			
		5	9	8	6	6	6	2	11/1999	Argiro et al.			
		5	9	5	7	1	3	8	9/1999	Lin et al.			
		5	7	4	2	2	9	1	4/1998	Palm			

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